

Disk Features

- Designed for Non-fragmentation
- Operating ratios up to 95% of the low end of burst tolerance
- Disk design offers high cycle life
- Suitable for liquid, gas, or two-phase applications
- Standard manufacturing design range and total tolerance ensures marked rating on disk tag does not exceed the MAWP of equipment
- Withstands full vacuum without vacuum support
- Wide range of standard and exotic materials available
- Withstands back pressure up to the positive set pressure of the disk
- Sizes from 1" (25 mm) through 30" (750 mm)
- Burst ratings from 12 psig (0.83 barg) to 1000 psig (68.97 barg)
- Resists product build-up. The smooth convex side of the disk is exposed to the process media
- Damage ratio of 1.0 or less
- 3-dimensional stainless steel tag permanently engraved with complete disk specifications
- ASME UD, CE (PED), and TÜV compliance available

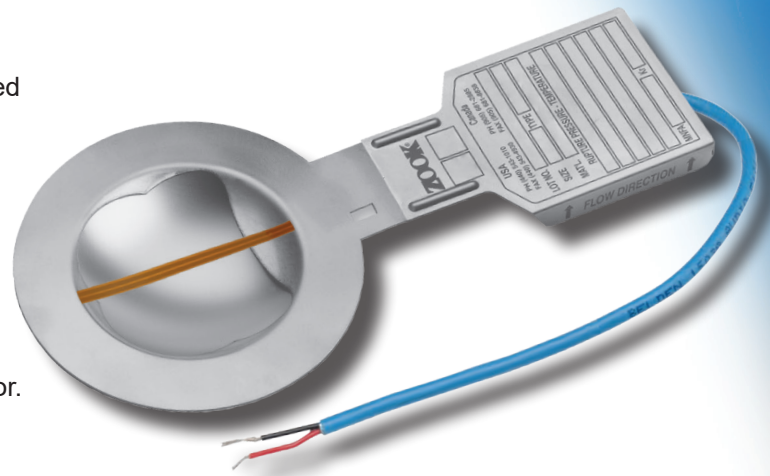
Options

- URA-L* A process side PFA Teflon liner provides protection from corrosive media.
- URA-BI* Equipped with ZOOK's Integral Burst Indicator.
- URA+ Factory tested to 100% of the low end of the tolerance to insure no disks will burst low.

*Note: The maximum temperature rating of rupture disks supplied with liners and BI's is lower than the base disk material.

Disk Holder Features

- Unique holder ensures proper disk orientation
- Non-torque sensitive flat seat design
- Standard material of construction is Stainless Steel. Other materials available upon request.
- Available options include: gauge tap; nipple and tee; excess flow valve; pressure gauge; J-hook; special facings and coatings



URA Series disk mounts
into URA-I Series disk holder

URA Series Specifications

Minimum and Maximum Pressure Ratings - psig (barg) @ 72°F (22°C)

Disk Size	Minimum Burst Pressure										URA-L	URA-BI	MNFA in ² (mm ²)	URA-I Holder (Overall Height)				
	316		Inconel 600		Monel 400		Nickel 200/201		Hastelloy C276									
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.								
1"	24	1000	22	1000	22	1000	22	1000	24	1000	34	Same as minimum material	Same as minimum material	0.86	1-1/2			
25 mm	1.66	68.97	1.52	68.97	1.52	68.97	1.52	68.97	1.66	68.97	2.34			554	38.10			
1-1/2"	22	1000	20	1000	20	900	20	900	22	1000	Same as minimum material			Same as minimum material	2.00	1-5/8		
40 mm	1.52	68.97	1.38	68.97	1.38	62.07	1.38	62.07	1.52	68.97					1,290	41.28		
2"	20	900	18	900	18	850	18	850	20	1000					3.36	1-3/4		
50 mm	1.38	62.07	1.24	62.07	1.24	58.62	1.24	58.62	1.38	68.97					2,167	44.45		
3"	18	900	16	900	16	750	16	750	18	1000					7.25	2-1/8		
80 mm	1.24	62.07	1.10	62.07	1.10	51.72	1.10	51.72	1.24	68.97					4,677	53.98		
4"	16	800	14	800	14	650	14	650	16	900					12.53	2-7/8		
100 mm	1.10	55.17	0.97	55.17	0.97	44.83	0.97	44.83	1.10	62.07					8,063	73.03		
6"	14	450	12	450	12	400	12	400	14	500					26.59	3-11/16		
150 mm	0.97	31.03	0.83	31.03	0.83	27.59	0.83	27.59	0.97	34.48					17,154	93.68		
8"	12	300	12	300	12	250	12	250	12	350					45.48	3-13/16		
200 mm	0.83	20.69	0.83	20.69	0.83	17.24	0.83	17.24	0.83	24.14					29,341	96.85		
Max. Temp.	900°F (482°C)		900°F (482°C)*		800°F (427°C)		750°F (399°C)		900°F (482°C)						500°F (260°C)	400°F (204°C)		

Note: For materials, sizes, burst ratings and temperatures not shown, contact ZOOK

* Contact ZOOK for higher temperatures

• Refer to ASME/ANSI B16.5 pipe flanges and flange fittings (Table 2) for max allowable pressure/temperature ratings per flange class.

Manufacturing Design Range & Total Performance Tolerance

ASME						PED				
Burst Pressure (psig)		Manufacturing Design Range			Burst Tolerance	Burst Pressure (barg)		Total Performance Tolerance		
Minimum	Maximum	Good	Better	Best		Minimum	Maximum	Good	Better	Best
1.0	<2.5	-10%	-5%	-0%	±0.33 psig	0.069	<0.172	±50%	-	±0.023 barg
2.5	<5.0	-10%	-5%	-0%	±0.5 psig	0.172	<0.345	±30%	±25%	±0.035 barg
5.0	<7.0	-10%	-5%	-0%	±0.5 psig	0.345	<0.483	±20%	±17.5%	±0.035 barg
7.0	<11.0	-10%	-5%	-0%	±0.8 psig	0.483	<0.759	±20%	±15%	±0.055 barg
11.0	<15	-10%	-5%	-0%	±1.3 psig	0.759	<1.034	±20%	±15%	±0.090 barg
15.0	<26	-10%	-5%	-0%	±2.0 psig	1.034	<1.793	±20%	±15%	±0.138 barg
26.0	<40	-10%	-5%	-0%	±2.0 psig	1.793	<2.758	±15%	±12.5%	±0.138 barg
40.0	Max	-10%	-5%	-0%	±5%	2.758	Max	±10%	±7.5%	±5%

Notes:

- 0% manufacturing range might not be available in all materials
- Burst tolerances are the maximum expected variation from the disk's marked burst pressure

Certified Flow Resistance Factors

Krg (Gas)	Krl (Liquid)
0.78	0.78

Teflon - TM The Chemours Company
 Inconel - TM Special Metals Corporation
 Monel - TM Special Metals Corporation
 Hastelloy - TM Haynes International



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